8th Grade Math Sequence 2015-2016

|  |  |  |  |
| --- | --- | --- | --- |
| Unit | Time Line | Modules & Standards | Assessments & Tasks |
| Boot Camp   * Order of Operations * Integers * Simplifying/Evaluating Expressions * Fractions | Sept  (2 weeks) |  | Boot Camp Pre-Test  Boot Camp Post-Test |
| Number Sense   * Irrational/Rational * Integer Exponents * Scientific Notation | Sept-Oct  (4-5 weeks) | Better Lesson Unit  8.EE.1  8.EE.2  8.EE.3  8.EE.4  8.NS.1  8.NS.2 | Number Sense Assessment A  Number Sense Assessment B  MARS Task: Estimating Length using Scientific Notation  Performance Task: “Rabbit Costumes 6th Grade” |
| Linear Equations   * Writing & Solving * Graphing * Slope | Oct-Nov  (7-8 weeks) | Module 4  Pattern Tasks  8.EE.5  8.EE.6  8.EE.7  8.EE.8 | Linear Equations Assessment A  Linear Equations Assessment B  Linear Equations Assessment C  Performance Tasks: 8th Grade Party and Squares and Circles |
| Concept of Congruence & Similarity   * Transformations * Angle Measures * Dilations * Pythagorean Theorem | Dec - Jan  (3-4 weeks) | Module 2/Module 3  8.G.1  8.G.2  8.G.3  8.G.4  8.G.5  8.G.6  8.G.7 | Congruence and Similarity Assessment A  Congruence and Similarity Assessment B  Performance Task: 8th Grade Aaron’s Designs |
| Geometry   * Volume of Cones, Cylinders and Spheres * Pythagorean Theorem | Jan-Feb  (3 weeks) | Module 5/7  8.G.6  8.G.7  8.G.8  8.G.9 | Geometry Assessment  Performance Task: Grade 8 Rugs |
| If pressed for time before testing, do the second half of the Linear Functions Module (Scatter plots and Data) prior to the first half | | | |
| Linear Functions   * Definition * Linear vs Nonlinear * Different Representations - (Tables, Graphs, Equations, Words) * Numerical Data - Scatter Plots * Categorical Data | Feb - Apr  (7-8 weeks) | Module 5/6  8.F.1  8.F.2  8.F.3  8.F.4  8.F.5  8.SP.1  8.SP.2  8.SP.3  8.SP.4 | Linear Functions Assessment A  Linear Functions Assessment B  Performance Tasks: 8th Grade House Prices  and Vincent’s Graphs |
| SBA Review | April-May  (1 week) |  |  |